

# Class 15

## Topics

- Intermediate Machine Failure Model

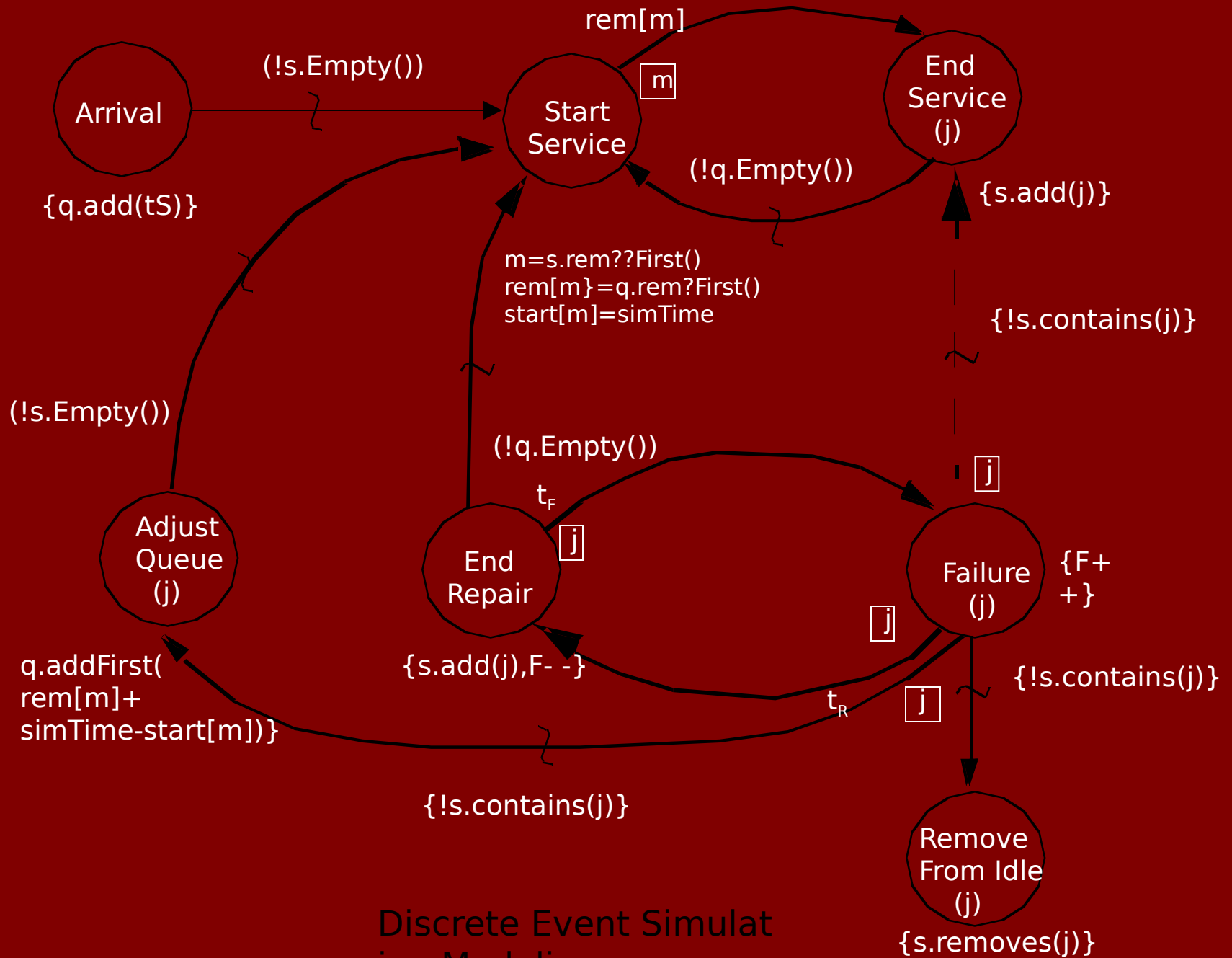
# Servers with Failures

## Parameters

- $k$  - # servers
- $\{t_s\}$  - service times
- $\{t_f\}$  - failure times
- $\{t_r\}$  - repair times

## State

- $q$  - FIFO container of remaining times
- can remove from middle and add to front
- $S$  - container of available server identities  $(0, \dots, k-1)$
- $rem[ ]$  - array of remaining times induced by server
- $start[ ]$  - array of start times induced by server
- $F$  - # failed machines



Discrete Event Simulation Modeling